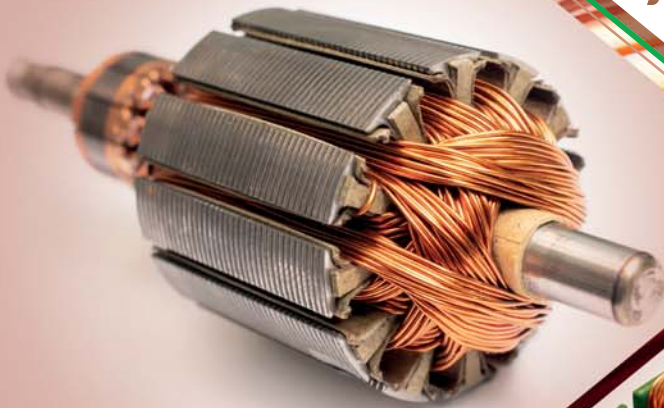


THE LEADING MANUFACTURER  
OF COPPER AND  
ALUMINIUM WIRE  
IN UKRAINE



AKVATON



PRODUCT CATALOGUE

[akvaton.com](http://akvaton.com)







# AKVATON

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# ABOUT US

## AKVATON IS A LEADING MANUFACTURER OF COPPER AND ALUMINIUM WIRE IN UKRAINE AND EUROPE

Production Enterprise “Akvaton” Limited Liability Company has been a leading manufacturer of high-quality copper-aluminium wire products in Ukraine for over 30 years. The modern production facility is located in the city of Rivne in the western part of Ukraine, near Poland.

We are a reliable company with a global outlook, whose production is based on premium materials and standards for copper and aluminium wire. Our goal is to become one of the leading companies in these industries. Other than Ukraine, our main markets are in Europe.

AKVATON specialises in the production and sale of a wide range of copper wire products, including electric wire, welding wire, conductive copper core, enamelled wire, copper and copper alloy contact wire and brush wire for electrical machines.

To ensure that all its products meet stringent quality standards, the company uses advanced production technologies and equipment. Our copper wire products are renowned for their high electrical conductivity, excellent corrosion resistance and durability.

The company's commitment to customer service, innovation and sustainable development makes it a reliable partner for customers in various industries. Thanks to a dedicated team of professionals, AKVATON continues to expand its product range and improve its production processes to meet the ever-changing needs of its customers.

## HIGH-QUALITY COPPER AND ALUMINIUM WIRE PRODUCTS



Our conductive copper products are ideal for use in a wide range of industries including electronics, electrical, construction and automotive. Their high electrical conductivity and corrosion resistance make them suitable for a wide range of applications. Alongside copper products, we also offer aluminium electrical wire and aluminium

conductors. Our aluminium wire products are widely used in a variety of applications due to their light weight and high strength-to-weight ratio. The company's aluminium wire products are lightweight and durable, making them ideal for use in the aerospace, marine and automotive industries.

## COMMITMENT TO CUSTOMER SERVICE AND CONTINUOUS IMPROVEMENT

AKVATON has a team of highly skilled and experienced professionals who are committed to providing quality customer service. The company's sales team works closely with customers to understand their needs and provide tailored solutions to meet their specific requirements. The company is committed to continuous improvement and innovation, investing in research and develop-

ment to improve its production processes and product range.

We aim to be the best partner by providing durable products for demanding conditions. We develop and monitor our operations to improve the daily lives of our customers. We invest in the quality of our sourcing, services, operations and products.



## TECHNICAL SUPPORT AND PARTNERSHIPS

AKVATON also offers comprehensive technical support to help customers with any questions or problems they may have. We maintain strong relationships with suppliers and partners to ensure a reliable supply chain and access to the

latest technologies and materials. Innovative technologies, spacious warehouses, a professional laboratory and our own transport fleet enable us to meet the most demanding requirements of our customers.

## TEAM SPIRIT

We have a team of around 100 specialists. We actively invest in occupational safety, health and welfare. Fair and equal treatment of our employees is important to us.

## SUSTAINABLE DEVELOPMENT

AKVATON is committed to the principles of sustainable development and social responsibility. The company's high-quality products, commitment to customer service and dedication to sustainable development make it a reliable partner for customers in various industries.

We offer durable solutions of the highest standard for renewable energy production, network construction, industry and residential and office construction.

All our products are manufactured using clean energy, and we are constantly taking steps to improve the energy efficiency of our business and minimise our environmental impact. In our operations, we also promote recycling and waste reduction.

## SOCIAL RESPONSIBILITY

Social responsibility is one of AKVATON's core values. We support local communities through a variety of initiatives, including charitable donations and volunteering. The

company also prioritises the safety and well-being of its employees by implementing strict health and safety measures to ensure a safe working environment.



# MAIN AREAS OF ACTIVITY



**GENERATORS**



**TELECOMMUNICATIONS**



**TRANSFORMERS AND DISTRIBUTION STATIONS**



**LOCOMOTIVES**



**CARS**



**AIRCRAFT**



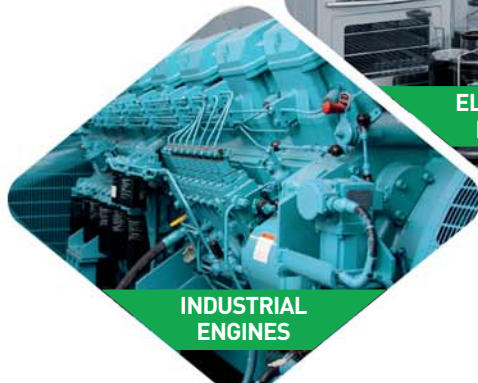
**SOLAR PHOTOVOLTAIC SYSTEMS**



**SWITCHES**



**ELECTRICAL DEVICES**



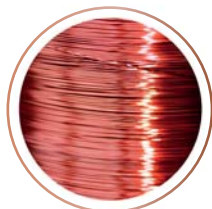
**INDUSTRIAL ENGINES**



**OIL AND GAS GENERATORS**



# OUR PRODUCTS



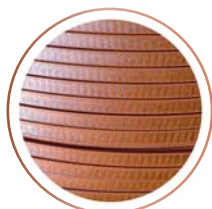
**ROUND COPPER ENAMELLED  
HEAT-RESISTANT WINDING WIRE**

PET-155, PEVTL-180, PETD-200

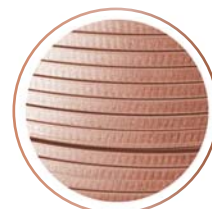


**ROUND ALUMINIUM ENAMELLED  
HEAT-RESISTANT WINDING WIRE**

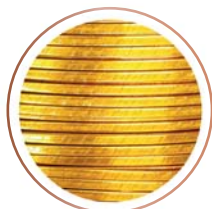
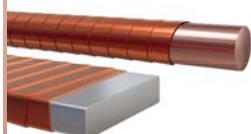
PEEAI-D200A



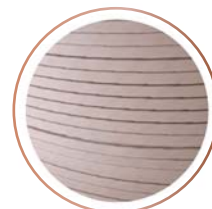
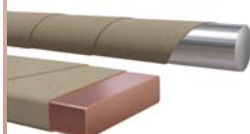
**ROUND AND RECTANGULAR COPPER WIRE  
WITH GLASS FIBRE OR GLASS  
POLYESTER INSULATION**



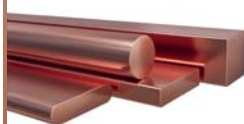
**ROUND AND RECTANGULAR COPPER  
AND ALUMINIUM WIRE  
WITH COMBINED INSULATION**



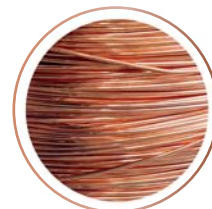
**ROUND AND RECTANGULAR COPPER  
AND ALUMINIUM WIRE  
WITH FILM INSULATION**



**ROUND AND RECTANGULAR COPPER  
AND ALUMINIUM WIRE  
WITH PAPER INSULATION**



**COPPER BUSBAR, WIRE, ROD  
FOR GENERAL ELECTRICAL APPLICATIONS**



**ROUND COPPER WIRE  
WITH LIGHT SURFACE**



# ROUND COPPER ENAMELLED WINDING WIRES

Round copper enamelled  
heat-resistant winding wire

## PET-155

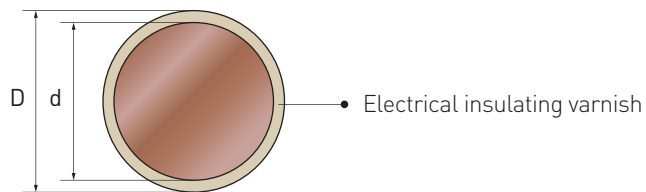


### DESCRIPTION:

Excellent dielectric,  
mechanical strength and elasticity.  
Thermoplastic, resistant  
to thermal shock, solvents,  
transformer oil.

It is used in traction motors,  
transformers, motors of unusual  
shapes, electrical machines,  
apparatus and devices.





$D-d$  = insulation thickness

## PROPERTIES:

- Excellent dielectric strength
- High mechanical strength, elasticity
- Resistance to thermal shock, thermoplasticity
- Resistance to solvents, transformer oil

## APPLICATION AREA:

- Transformers
- Traction motors
- Motors of unusual shape
- Electrical machines, apparatus and devices

## SIZE RANGE:

$0,16 \leq \varnothing \leq 2,500$  mm

## GRADE: 155

- Temperature index: 155°C
- Thermal shock: 200°C
- Insulation thermoplasticity: 240°C

## BREAKDOWN VOLTAGE:

2000 – 5700 V

## ELECTRICAL RESISTANCE:

$0,01724 \text{ Ohm} \times \text{mm}^2/\text{m}$

## RELATIVE ELONGATION:

from 18 – 33% and above

## CHEMICAL RESISTANCE:

Excellent

## CONDUCTOR MATERIAL:

EN 1977 Cu-ETP CW004A;  
EN 1977 Cu-ETP1 CW003A;  
EN 1977 Cu-OF CW008A

## INSULATION:

Enamel coating based on polyester  
or polyether-imide resin

## PACKAGING:

Coils: K250; K400; K315/500; K400/630

## SPECIFICATION:

IEC 60317-0-1

## THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015, IDT);  
EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
ISO 9001:2015



TABLE OF DIMENSIONAL CHARACTERISTICS

TEMPERATURE INDEX 155   PET-155			
Ø (mm)	Limit deviations of wire, ± mm	Min. Ø insulation thickness, mm	Max. Ø of wire, mm
0,150	0,003	0,020	0,190
0,160	0,003	0,020	0,199
0,170	0,003	0,020	0,210
0,180	0,003	0,020	0,222
0,190	0,003	0,020	0,234
0,200	0,003	0,020	0,245
0,210	0,003	0,025	0,258
0,212	0,003	0,025	0,260
0,224	0,003	0,025	0,272
0,230	0,004	0,025	0,279
0,236	0,004	0,025	0,285
0,250	0,004	0,025	0,301
0,265	0,004	0,025	0,319
0,280	0,004	0,025	0,334
0,300	0,004	0,025	0,355
0,315	0,004	0,025	0,371
0,335	0,004	0,030	0,393
0,355	0,004	0,030	0,414
0,375	0,005	0,030	0,436
0,380	0,005	0,030	0,441
0,400	0,005	0,030	0,462
0,425	0,005	0,030	0,489
0,450	0,005	0,030	0,516
0,475	0,005	0,030	0,543
0,500	0,005	0,035	0,569
0,530	0,006	0,035	0,601
0,560	0,006	0,035	0,632
0,600	0,006	0,035	0,676
0,630	0,006	0,040	0,706
0,670	0,007	0,040	0,749
0,710	0,007	0,040	0,790
0,750	0,008	0,040	0,832
0,800	0,008	0,040	0,885
0,850	0,009	0,040	0,937
0,900	0,009	0,040	0,990
0,950	0,010	0,040	1,041
1,000	0,010	0,050	1,093
1,060	0,011	0,050	1,155
1,120	0,011	0,050	1,217
1,180	0,012	0,050	1,279
1,200	0,013	0,050	1,301
1,250	0,013	0,050	1,351
1,320	0,013	0,060	1,423
1,400	0,014	0,060	1,506
1,450	0,015	0,060	1,558
1,500	0,015	0,060	1,608
1,560	0,016	0,060	1,671
1,600	0,016	0,060	1,711
1,700	0,017	0,060	1,813
1,800	0,018	0,070	1,916
1,900	0,019	0,070	2,018
2,000	0,020	0,070	2,120
2,120	0,021	0,070	2,243
2,240	0,022	0,070	2,366
2,500	0,025	0,070	2,631

# ROUND COPPER ENAMELLED WINDING WIRES

Round copper enamelled high-strength heat-resistant tinned winding wire with polyurethane insulation

## PEVTL-180



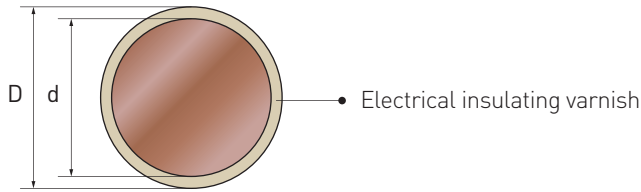
### DESCRIPTION:

Excellent mechanical strength and elasticity. Direct soldering with short soldering time.

It is used in high-speed winding machines, small motors and transformers, solenoid coils, electric machines, apparatus and devices, electric relays.







D-d = insulation thickness

**PRODUCT NAME:**

- PEVTL-1-180
- PEVTL-2-180

**PROPERTIES:**

- Excellent mechanical strength
- High elasticity
- Direct soldering
- Short soldering time

**APPLICATION AREA:**

- High-speed winding machines
- Small motors and transformers
- Solenoid coils
- Electrical machines, apparatus and instruments
- Electric relays

**SIZE RANGE:**

0,28 - 0,85 mm

**GRADE: 180**

- Temperature index: 180°C
- Thermal shock: 200°C
- Insulation thermoplasticity: 230°C

**BREAKDOWN VOLTAGE:**

1600 - 5000 V

**ELECTRICAL RESISTANCE:**

0.01724 Ohm × mm<sup>2</sup>/m

**RELATIVE ELONGATION:**

from 22 - 32% and above

**CHEMICAL RESISTANCE:**

Excellent

**TINNING:**

390°C

**CONDUCTOR MATERIAL:**

EN 1977 Cu - ETP CW004A;  
 EN 1977 Cu - ETP1 CW003A;  
 EN 1977 Cu- OF CW008A

**INSULATION:**

Enamel coating based on polyurethane

**PACKAGING:**

Coils K250; K400; K315/500; K400/630

**SPECIFICATION:**

IEC 60317-51

**THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:**

ISO 9001:20015 (ISO 9001:2015, IDT);  
 EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
 ISO 9001:2015

## TABLE OF DIMENSIONAL CHARACTERISTICS

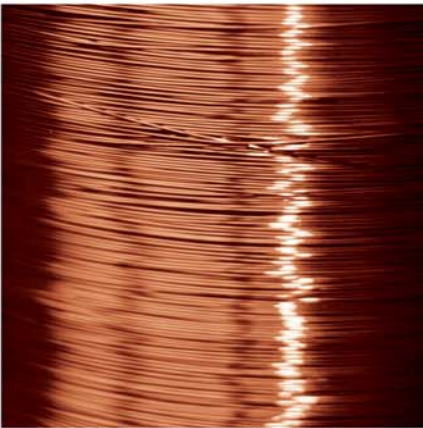
TEMPERATURE INDEX 180   PEVTL-180					
Ø (mm)	Limit deviations of wire, ± mm	PEVTL-1-180		PEVTL-2-180	
		Min. Ø of insulation thickness, mm	Max. Ø of wire, mm	Min. Ø of insulation thickness, mm	Max. Ø of wire, mm
0,280	0,004	0,018	0,312	0,033	0,329
0,300	0,004	0,019	0,334	0,035	0,352
0,315	0,004	0,019	0,349	0,035	0,367
0,335	0,004	0,020	0,372	0,038	0,391
0,355	0,004	0,020	0,392	0,038	0,411
0,375	0,005	0,021	0,414	0,040	0,434
0,380	0,005	0,021	0,419	0,040	0,439
0,400	0,005	0,021	0,439	0,040	0,459
0,425	0,005	0,021	0,466	0,042	0,488
0,450	0,005	0,022	0,491	0,042	0,513
0,475	0,005	0,024	0,519	0,045	0,541
0,500	0,005	0,024	0,544	0,045	0,566
0,530	0,006	0,025	0,576	0,047	0,600
0,560	0,006	0,025	0,606	0,047	0,630
0,600	0,006	0,027	0,649	0,050	0,674
0,630	0,006	0,027	0,679	0,050	0,704
0,670	0,007	0,028	0,722	0,053	0,749
0,710	0,007	0,028	0,762	0,053	0,789
0,750	0,008	0,030	0,805	0,056	0,834
0,800	0,008	0,030	0,855	0,056	0,884
0,850	0,009	0,032	0,909	0,060	0,939



# ROUND COPPER ENAMELLED WINDING WIRES

Round copper heat-resistant winding wire with enamelled insulation based on polyester or polyester-imide and outer coating based on polyamide-imide

## PETD-200

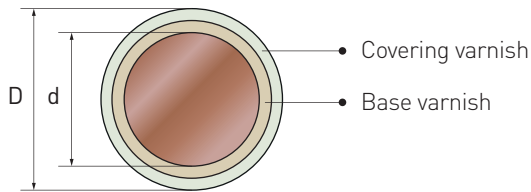


### DESCRIPTION:

Excellent dielectric, mechanical strength, elasticity. Thermoplastic, resistant to thermal shock, refrigerants, freon, solvents, transformer oil.

It is used in traction motors, transformers, electrical machines, apparatus and devices.





$D-d$  = insulation thickness

## PRODUCT NAME:

- PETD 1-200
- PETD 2-200
- PETD 3-200

## PROPERTIES:

- Excellent dielectric strength
- High mechanical strength, elasticity
- Resistance to thermal shock, thermoplasticity
- Resistance to refrigerants, solvents, transformer oil
- Freon resistant

## APPLICATION AREA:

- Transformers
- Traction motors
- Electrical machinery, apparatus and devices

## SIZE RANGE:

0.16 - 2.5 mm

## GRADE: 200

- Temperature index:  $\geq 200^{\circ}\text{C}$
- Thermal shock:  $220^{\circ}\text{C}$
- Insulation thermoplasticity:  $320^{\circ}\text{C}$

## BREAKDOWN VOLTAGE:

1700 - 7600 V

## ELECTRICAL RESISTANCE:

$0.01724 \text{ Ohm} \times \text{mm}^2/\text{m}$

## RELATIVE ELONGATION:

from 22 - 35% and above

## CHEMICAL RESISTANCE:

Excellent

## CONDUCTOR MATERIAL:

EN 1977 Cu - ETP CW004A;  
EN 1977 Cu - ETP1 CW003A;  
EN 1977 Cu - OF CW008A

## INSULATION:

- Base enamel coating based on polyester or polyester-imide
- Outer coating based on polyamide-imide

## PACKAGING:

Coils: K250; K400; K315/500; K400/630

## SPECIFICATION:

IEC 60317-13

## THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015, IDT);  
EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
ISO 9001:2015

TABLE OF DIMENSIONAL CHARACTERISTICS

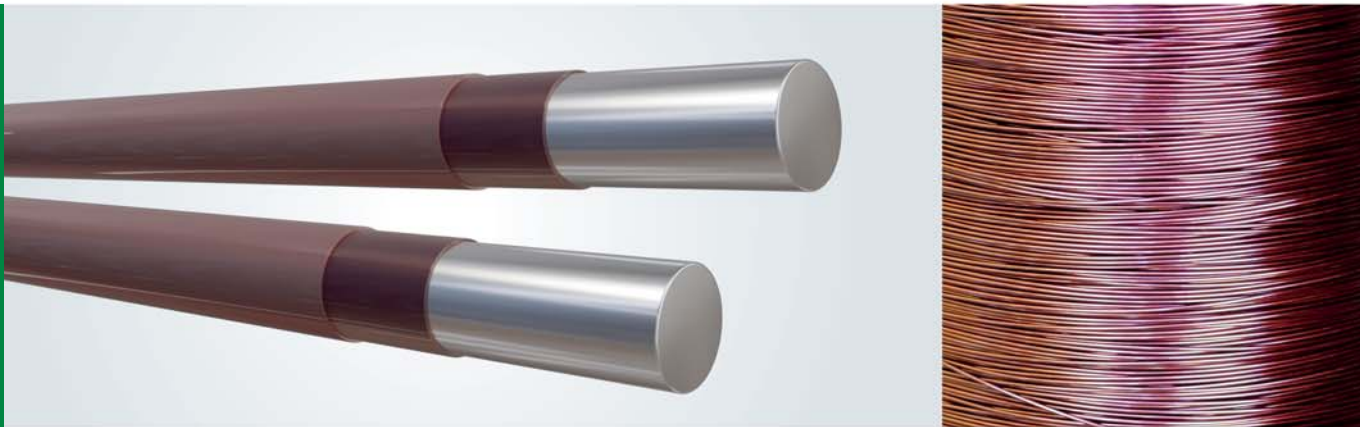
TEMPERATURE INDEX 200   PETD-200							
Ø (mm)	Limit deviations of wire, ± mm	PETD1-200		PETD2-200		PETD3-200	
		Min. Ø of insulation thickness, mm	Max. Ø of wire, mm	Min. Ø of insulation thickness, mm	Max. Ø of wire, mm	Min. Ø of insulation thickness, mm	Max. Ø of wire, mm
0,160	0,003	0,012	0,182	0,023	0,194	0,033	0,205
0,170	0,003	0,013	0,194	0,023	0,205	0,036	0,217
0,180	0,003	0,013	0,204	0,025	0,217	0,036	0,229
0,190	0,003	0,014	0,216	0,027	0,228	0,039	0,240
0,200	0,003	0,014	0,226	0,027	0,239	0,039	0,252
0,212	0,003	0,015	0,240	0,029	0,254	0,043	0,268
0,224	0,003	0,015	0,252	0,029	0,266	0,043	0,280
0,236	0,004	0,017	0,267	0,032	0,283	0,048	0,298
0,250	0,004	0,017	0,281	0,032	0,297	0,048	0,312
0,265	0,004	0,018	0,297	0,033	0,314	0,050	0,330
0,280	0,004	0,018	0,312	0,033	0,329	0,050	0,345
0,300	0,004	0,019	0,334	0,035	0,352	0,053	0,360
0,315	0,004	0,019	0,349	0,035	0,367	0,053	0,384
0,335	0,004	0,020	0,372	0,038	0,391	0,057	0,408
0,355	0,004	0,020	0,392	0,038	0,411	0,057	0,428
0,375	0,005	0,021	0,414	0,040	0,434	0,060	0,453
0,400	0,005	0,021	0,439	0,040	0,459	0,060	0,478
0,425	0,005	0,022	0,466	0,042	0,488	0,064	0,508
0,450	0,005	0,022	0,491	0,042	0,513	0,064	0,533
0,475	0,005	0,024	0,519	0,045	0,541	0,067	0,562
0,500	0,005	0,024	0,544	0,045	0,566	0,067	0,587
0,530	0,006	0,025	0,576	0,047	0,600	0,071	0,623
0,560	0,006	0,025	0,606	0,047	0,630	0,071	0,653
0,600	0,006	0,027	0,649	0,050	0,674	0,075	0,698
0,630	0,006	0,027	0,679	0,050	0,704	0,075	0,728
0,670	0,007	0,028	0,722	0,053	0,749	0,080	0,774
0,710	0,007	0,028	0,762	0,053	0,789	0,080	0,817
0,750	0,008	0,030	0,805	0,056	0,834	0,085	0,861
0,800	0,008	0,030	0,855	0,056	0,884	0,085	0,911
0,850	0,009	0,032	0,909	0,060	0,939	0,090	0,968
0,900	0,009	0,032	0,959	0,060	0,989	0,090	1,018
0,950	0,010	0,034	1,012	0,063	1,044	0,095	1,074
1,000	0,010	0,034	1,062	0,063	1,094	0,095	1,124
1,060	0,011	0,034	1,124	0,065	1,157	0,098	1,188
1,120	0,011	0,034	1,184	0,065	1,217	0,098	1,248
1,180	0,012	0,035	1,246	0,067	1,279	0,100	1,311
1,250	0,013	0,035	1,316	0,067	1,349	0,100	1,381
1,320	0,013	0,036	1,388	0,069	1,422	0,103	1,455
1,400	0,014	0,036	1,468	0,069	1,502	0,103	1,535
1,500	0,015	0,038	1,570	0,071	1,606	0,107	1,640
1,600	0,016	0,038	1,670	0,071	1,706	0,107	1,740
1,700	0,017	0,039	1,772	0,073	1,809	0,110	1,844
1,800	0,018	0,039	1,872	0,073	1,909	0,110	1,944
1,900	0,019	0,040	1,974	0,075	2,012	0,113	2,048
2,000	0,020	0,040	2,074	0,075	2,112	0,113	2,148
2,120	0,021	0,041	2,196	0,077	2,235	0,116	2,272
2,240	0,022	0,041	2,316	0,077	2,355	0,116	2,392
2,360	0,024	0,042	2,438	0,079	2,478	0,119	2,516
2,500	0,025	0,042	2,578	0,079	2,618	0,119	2,656



## ROUND ALUMINIUM ENAMELLED WINDING WIRES

Round aluminium heat-resistant winding wire with enamelled insulation based on polyester or polyester-imide and an outer coating based on polyamide-imide

### PEEAI-D200A

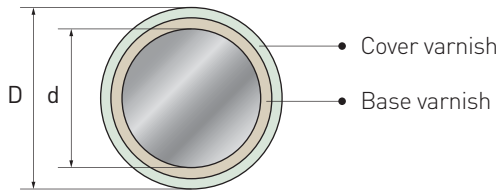


#### DESCRIPTION:

High resistance to transformer oils and solvents. It is heat and freon resistant.

It is used in lightweight structures, electric motors, oil-cooled transformers, dry insulation and welding.





$D-d$  = insulation thickness

## PRODUCT NAME:

- PEEAI 1-D200A
- PEEAI 2-D200A

## PROPERTIES:

- High heat resistance
- Suitable for lightweight construction
- High resistance to transformer oils
- High resistance to solvents
- Freon resistant

## APPLICATION AREA:

- Lightweight structures
- Electric motors
- Oil-cooled transformers
- Dry insulated transformers
- Welding transformers

## SIZE RANGE:

$0.40 \leq \varnothing \leq 2.500$  mm

## GRADE: 200

- Temperature index:  $\geq 200^\circ\text{C}$
- Thermal shock:  $220^\circ\text{C}$
- Insulation thermoplasticity:  $320^\circ\text{C}$

## BREAKDOWN VOLTAGE:

2300 - 5000 V

## ELECTRICAL RESISTANCE:

$0.028 \text{ Ohm} \times \text{mm}^2/\text{m}$

## RELATIVE ELONGATION:

from 10 - 15% and above

## CHEMICAL RESISTANCE:

Excellent

## CONDUCTOR MATERIAL (AL 99.7):

EN 1715 - EN AW1370

## INSULATION:

- Base enamel coating based on polyester or polyester-imide
- Outer coating based on polyamide-imide

## PACKAGING:

Coils: K250; K400; K315/500; K400/630

## SPECIFICATION:

IEC 60317-25

## THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

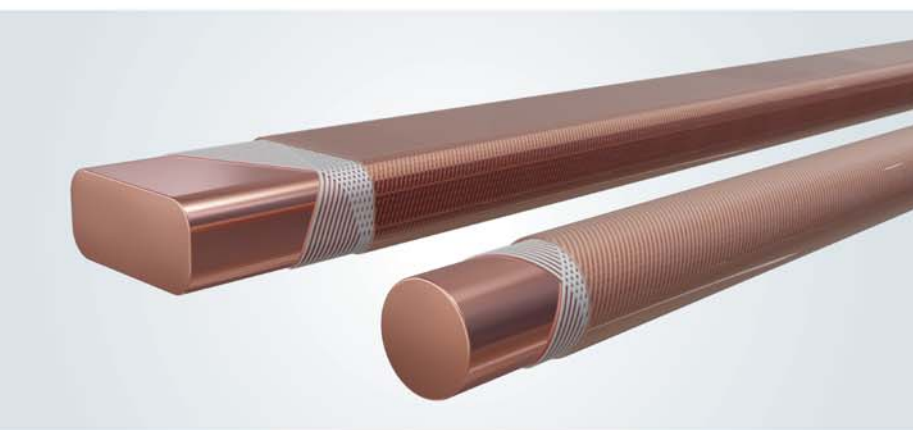
ISO 9001:20015 (ISO 9001:2015, IDT);  
EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
ISO 9001:2015

TABLE OF DIMENSIONAL CHARACTERISTICS

TEMPERATURE INDEX 200   PEEAI-D 200 A					
Ø (mm)	Limit deviations of wire, ± mm	PEEAI 1-D 200 A		PEEAI 2-D 200 A	
		Min. Ø of insulation thickness, mm	Max. Ø of wire, mm	Min. Ø of insulation thickness, mm	Max. Ø of wire, mm
0,400	0,005	0,021	0,439	0,040	0,459
0,425	0,005	0,022	0,466	0,042	0,488
0,450	0,005	0,022	0,491	0,042	0,513
0,475	0,005	0,024	0,519	0,045	0,541
0,500	0,005	0,024	0,544	0,045	0,566
0,530	0,006	0,025	0,576	0,047	0,600
0,560	0,006	0,025	0,606	0,047	0,630
0,600	0,006	0,027	0,649	0,050	0,674
0,630	0,006	0,027	0,679	0,050	0,704
0,670	0,007	0,028	0,722	0,053	0,749
0,710	0,007	0,028	0,762	0,053	0,789
0,750	0,008	0,030	0,805	0,056	0,834
0,800	0,008	0,030	0,855	0,056	0,884
0,850	0,009	0,032	0,909	0,060	0,939
0,900	0,009	0,032	0,959	0,060	0,989
0,950	0,010	0,034	1,012	0,063	1,044
1,000	0,010	0,034	1,062	0,063	1,094
1,060	0,011	0,034	1,124	0,065	1,157
1,120	0,011	0,034	1,184	0,065	1,217
1,180	0,012	0,035	1,246	0,067	1,279
1,200	0,012	0,035	1,316	0,067	1,299
1,250	0,013	0,035	1,316	0,067	1,349
1,320	0,013	0,036	1,388	0,069	1,422
1,400	0,014	0,036	1,468	0,069	1,502
1,450	0,015	0,038	1,570	0,071	1,556
1,500	0,015	0,038	1,570	0,071	1,606
1,560	0,016	0,038	1,670	0,071	1,666
1,600	0,016	0,038	1,670	0,071	1,706
1,700	0,017	0,039	1,772	0,073	1,809
1,800	0,018	0,039	1,872	0,073	1,909
1,900	0,019	0,040	1,974	0,075	2,012
2,000	0,020	0,040	2,074	0,075	2,112
2,120	0,021	0,041	2,196	0,077	2,235
2,240	0,022	0,041	2,316	0,077	2,355
2,360	0,024	0,042	2,438	0,079	2,478
2,500	0,025	0,042	2,578	0,079	2,618



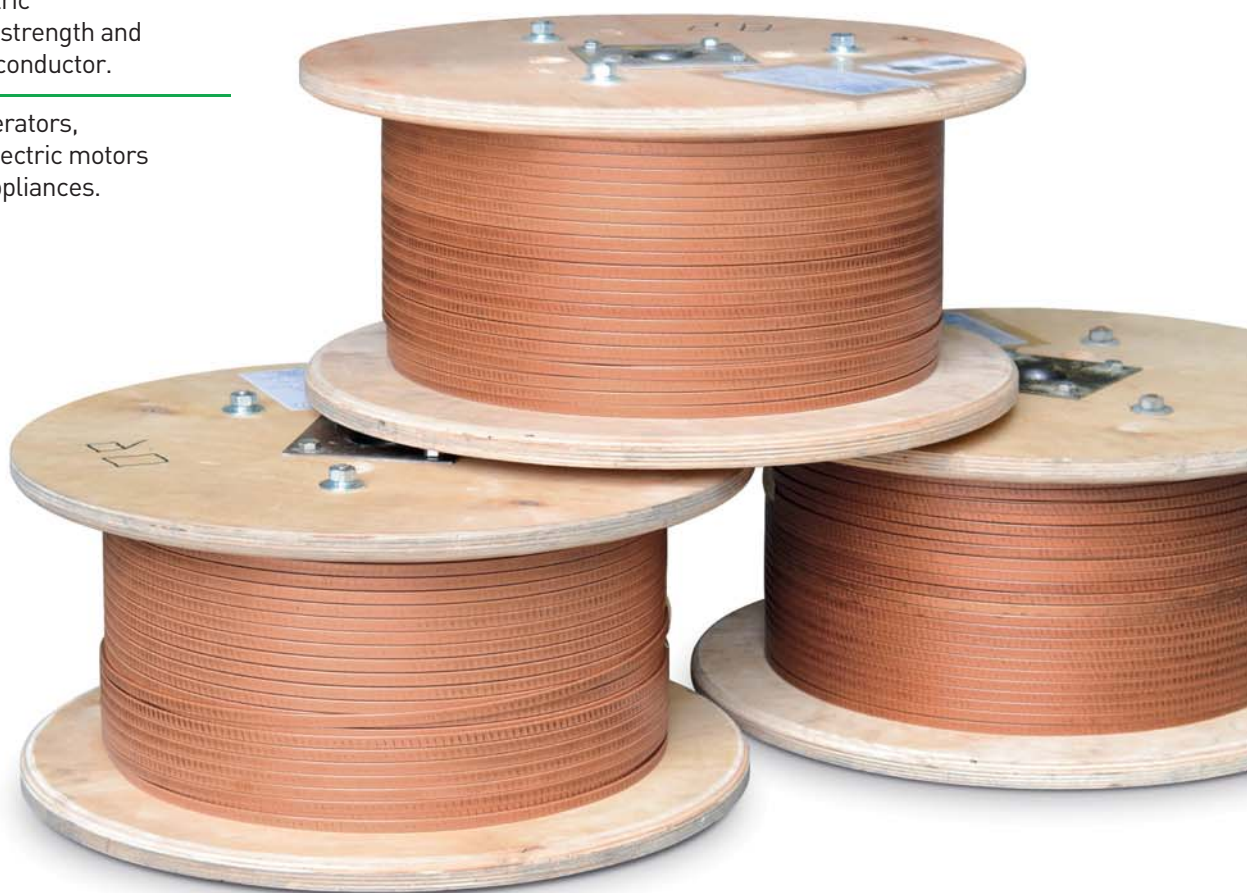
# ROUND AND RECTANGULAR COPPER WIRE WITH GLASS FIBRE OR GLASS POLYESTER INSULATION

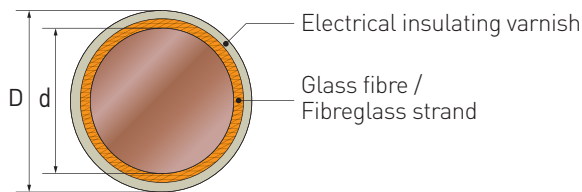


## DESCRIPTION:

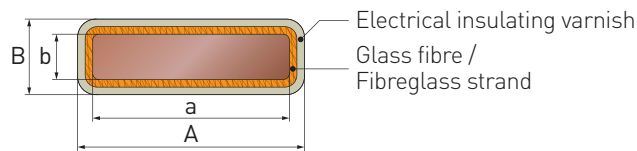
Excellent dielectric and mechanical strength and adhesion to the conductor.

It is used in generators, transformers, electric motors and electrical appliances.





$D-d$  = insulation thickness



$a$  - width       $A-a$  = insulation thickness  
 $b$  - thickness     $B-b$  = insulation thickness

### PRODUCT NAME:

- PSDT
- PSDT-L
- PSLDT
- PSD-L
- PSDKT
- PSLDKT
- PSDK
- PSDK-L
- PSLD
- PSLDK
- PSDKT-L
- PSD
- PSLD-1

### PROPERTIES:

- Excellent dielectric strength
- Excellent resistance to mechanical influences
- Very good adhesion to the conductor

### APPLICATION AREA:

- Generators
- Electric motors
- Electrical devices
- Transformers

### SIZE RANGE:

Round: 1.7 – 10.0 mm  
 Rectangular: 5 - 80 mm<sup>2</sup>;  $1.4 \leq (b/a) < 8$

### GRADE: 155, 200

- Temperature index: 155°C, 200°C
- Thermal shock: 220°C

### BREAKDOWN VOLTAGE:

Round: 300 - 550 V  $\leq$ ;  
 Rectangular: 350 - 600 V

### ELECTRICAL RESISTANCE:

0.01724 Ohm  $\times$  mm<sup>2</sup>/m

### RELATIVE ELONGATION:

from 4 - 34% and above

### CHEMICAL RESISTANCE:

Excellent

### CONDUCTOR MATERIAL:

EN 1977 Cu - ETP CW004A;  
 EN 1977 Cu - ETP1 CW003A;  
 EN 1977 Cu - OF CW008A

### INSULATION:

- Glass fibre with bonding and impregnation with heat-resistant or silicone varnish. Can be with a surface varnish layer
- Glass fibre-reinforced polyester with bonding and impregnation with heat-resistant or silicone varnish. Can be without varnish

### PACKAGING:

- Coils
- Drums

### SPECIFICATION:

IEC 60317-33 IEC 60317-50;  
 IEC 60317-62 IEC 60317-72;  
 IEC 60317-60

### THE PRODUCTION IS CERTIFIED AND COMPLIES WITH THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015, IDT);  
 EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
 ISO9001:2015

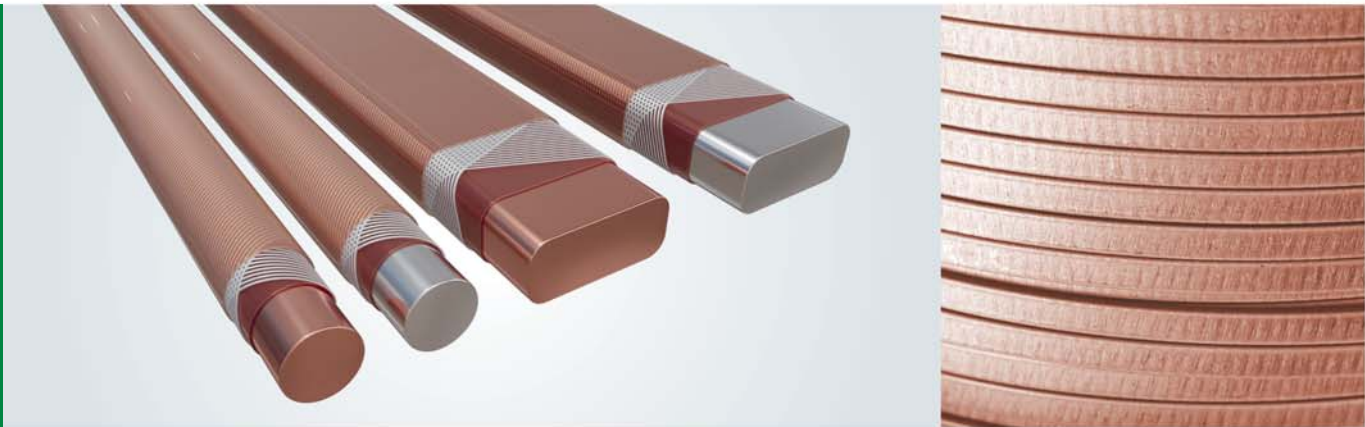
TABLE OF DIMENSIONAL CHARACTERISTICS

TEMPERATURE INDEX 155, 200				
ROUND AND RECTANGULAR COPPER WIRE WITH GLASS FIBRE OR GLASS POLYESTER INSULATION				
Wire grade	Temperature index	Type of insulation	Size range	
			Round, mm	Rectangular, mm <sup>2</sup>
PSDT	155°C	Thinned. Glass fibre strand laid in two layers, with backing and heat-resistant varnish impregnation	1,7-10,0	5,0-80,0
PSDT-L		Thinned. Glass fibre strand laid in two layers, with backing and heat-resistant varnish impregnation, with a surface varnish layer		
PSLDT		Thinned. Glass polyester strand laid in two layers, with backing and heat-resistant varnish impregnation		
PSD-L		Glass fibre strand laid in two layers, with backing and heat-resistant varnish impregnation, with a surface varnish layer		
PSD		Glass fibre strand laid in two layers, with backing and heat-resistant varnish impregnation		
PSLD-1		Glass polyester strand laid in two layers, without varnish		
PSDK-L	200°C	Glass fibre strand laid in two layers, with backing and organosilicon varnish impregnation, with a surface varnish layer	1,7-10,0	5,0-80,0
PSLD		Glass polyester strand laid in two layers, with backing and heat-resistant varnish impregnation		
PSLDK		Glass polyester strand laid in two layers, with backing and organosilicon varnish impregnation		
PSDKT		Thinned. Glass fibre strand laid in two layers, with backing and organosilicon varnish impregnation		
PSDKT-L		Thinned. Glass fibre strand laid in two layers, with backing and organosilicon varnish impregnation, with a surface varnish layer		
PSLDKT		Thinned. Glass polyester strand laid in two layers, with backing and organosilicon varnish impregnation		
PSDK		Glass fibre strand laid in two layers, with backing and organosilicon varnish impregnation		



# ROUND AND RECTANGULAR COPPER AND ALUMINIUM WIRE

## WITH COMBINED INSULATION

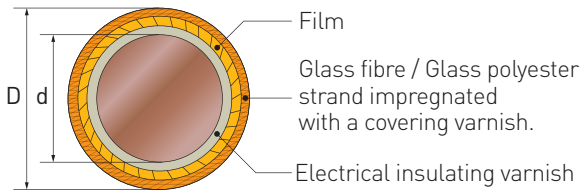


### DESCRIPTION:

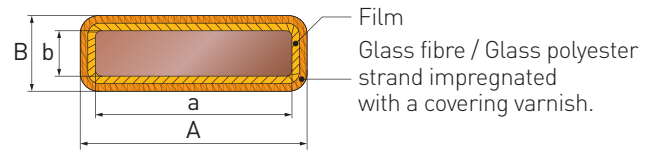
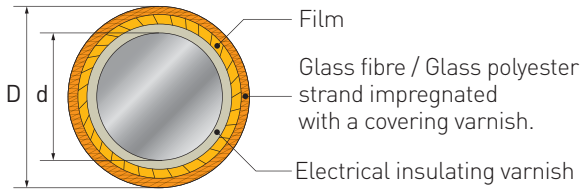
Excellent dielectric, mechanical strength and elasticity. Thermoplastic, resistant to thermal shock and organic solvents.

It is used in traction motors, transformers, electrical machines, apparatus and devices.

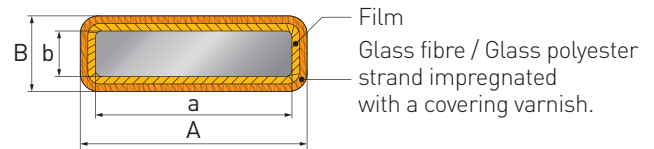




D-d = insulation thickness



a - width      A-a = insulation thickness  
b - thickness      B-b = insulation thickness



\*insulation layers can be of any combination

### DESIGNATION OF COPPER WIRES:

- |               |              |
|---------------|--------------|
| ■ PETVSD-155  | ■ PTSD-200   |
| ■ PLSD-155    | ■ PNTSD-200  |
| ■ PETVSDT-155 | ■ PETSLD-200 |
| ■ PETVSLD-155 | ■ PTSdT-200  |
| ■ PETSD-200   | ■ PNTSDT-200 |

### DESIGNATION OF ALUMINIUM WIRES:

- |                |               |
|----------------|---------------|
| ■ PETVSD-155A  | ■ PTSD-200A   |
| ■ PLSD-155A    | ■ PNTSD-200A  |
| ■ PETVSDT-155A | ■ PETSLD-200A |
| ■ PETVSLD-155A | ■ PTSdT-200A  |
| ■ PETVSD-200A  | ■ PNTSDT-200A |

### PROPERTIES:

- Excellent dielectric strength
- High mechanical strength, elasticity
- Resistance to thermal shock, thermoplasticity
- Resistance to organic solvents

### APPLICATION AREA:

- Transformers
- Traction motors
- Electrical machinery, apparatus and devices

### SIZE RANGE:

Round: 1.7 - 2.5 mm;  
Rectangular: 5 - 80 mm<sup>2</sup>; 1,4 ≤ [b/a] < 8

### GRADE: 155, 200

- Temperature index: 155°C, 200°C
- Thermal shock: 220°C
- Insulation thermoplasticity:
  - Grade 155: 240°C
  - Grade 200: 320°C

### BREAKDOWN VOLTAGE:

900 - 1400 V ≤

### ELECTRICAL RESISTANCE:

Copper: 0.01724 Ohm × mm<sup>2</sup>/m;  
Aluminium: 0.0277 Ohm × mm<sup>2</sup>/m

### RELATIVE ELONGATION:

Copper: from 24 - 32% and above;  
Aluminium: from 20 - 25% and above

### CHEMICAL RESISTANCE:

Excellent

### CONDUCTOR MATERIAL:

EN 1977 Cu - ETP; CW004A;  
EN 1977 Cu - ETP1 CW003A;  
EN 1977 Cu - OF CW008A;  
EN1715 - (Al ≥ 99.7)

### INSULATION:

- Enamel coating
- Polyamide fluoroplastic film
- Aramid paper NOMEX
- Glass polyester yarn

### PACKAGING:

- Coils
- Drums

### SPECIFICATION:

IEC 60317 - (33, 46, 47, 49, 50, 60, 61, 62, 70, 71, 72)

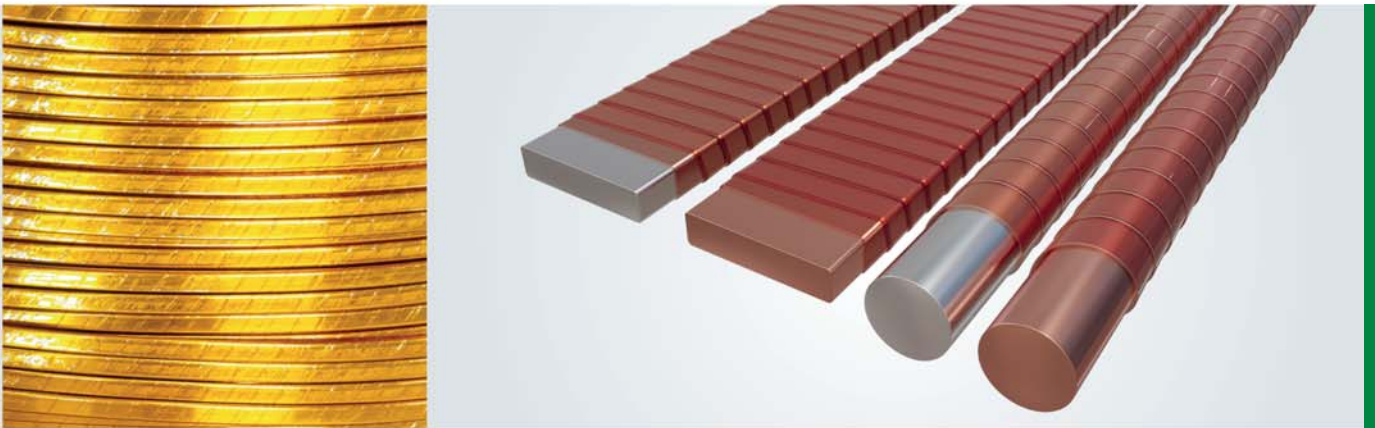
### THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015, IDT);  
EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
ISO 9001:2015

TABLE OF DIMENSIONAL CHARACTERISTICS

TEMPERATURE INDEX 155, 200				
ROUND AND RECTANGULAR COPPER AND ALUMINIUM WIRE WITH COMBINED INSULATION				
Wire marking	Temperature index	Insulation type	Size range	
			Round, mm	Rectangular, mm <sup>2</sup>
PETVSD-155 PETVSD-155A	155°C	Heat-resistant, high-strength enamel and two layers of glass strand windings, impregnated with heat-resistant varnish, with normal insulation	1,7-2,5	5,0-80,0
PETVSLD-155 PETVSLD-155A		Heat-resistant, high-strength enamel and two layers of polyester strand windings, impregnated with heat-resistant varnish, with normal insulation		
PETVSDT-155 PETVSDT-155A		Heat-resistant, high-strength enamel and two layers of glass strand windings, impregnated with heat-resistant varnish, with thinned insulation		
PLSD-155 PLSD-155A		One layer of polyethylene terephthalate film and two layers of glass strand, impregnated with heat-resistant varnish, with normal insulation		
PETSD-200 PETSD-200A	200°C	Heat-resistant enamel with increased heat resistance and two layers of glass strand windings, impregnated with heat-resistant varnish, with normal insulation	1,7-2,5	5,0-80,0
PETSLD-200 PETSLD-200A		Heat-resistant enamel with increased heat resistance and two layers of glass-polyester strand windings, impregnated with heat-resistant varnish, with normal insulation		
PPTSdT-200 PPTSdT-200A		One layer of polyimide-fluoroplastic film and two layers of glass strand, impregnated with heat-resistant varnish, with thinned insulation		
PTSD-200 PPTSdT-200A		One layer of polyimide-fluoroplastic film and two layers of glass strand, impregnated with heat-resistant varnish, with normal insulation		
PNTSDT-200 PNTSDT-200A		One layer of NOMEX synthetic aramid paper and two layers of glass strand, impregnated with heat-resistant varnish, with thinned insulation		
PNTSD-200 PNTSD-200A		One layer of synthetic aramid paper NOMEX and two layers of glass strand, impregnated with heat-resistant varnish, with normal insulation		



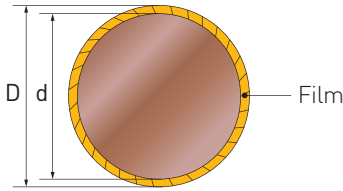


### DESCRIPTION:

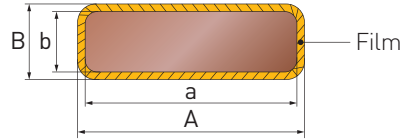
Excellent dielectric, mechanical strength and elasticity. Thermoplastic, resistant to thermal shock, organic solvents.

It is used in traction motors, transformers, electrical machines, apparatus and devices.

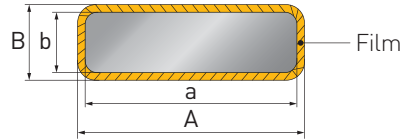
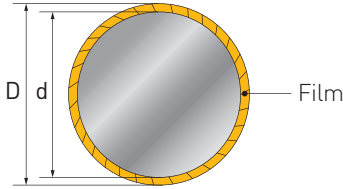




$D-d$  = insulation thickness



$a$  - width       $A-a$  = insulation thickness  
 $b$  - thickness       $B-b$  = insulation thickness



### DESIGNATION OF COPPER WIRES:

- PPIOT-200
- PPIO-200
- PPIOU-200
- PPIOT-200
- PPID-200
- PPIDU-200
- PPI-200
- PPI1-200

### DESIGNATION OF ALUMINIUM WIRES:

- PPIOT-200A
- PPIO-200A
- PPIOU-200A
- PPIOT-200A
- PPID-200A
- PPIDU-200A
- PPI-200A
- PPI1-200A

### PROPERTIES:

- Excellent dielectric strength
- High mechanical strength, elasticity
- Resistance to thermal shock, thermoplasticity
- Resistance to organic solvents

### APPLICATION AREA:

- Transformers
- Traction motors
- Electrical machinery, apparatus and devices

### SIZE RANGE:

Round: 1.7 – 10.0mm;  
 Rectangular: 5 - 80 mm<sup>2</sup>;  $1,4 \leq (b/a) < 8$

### GRADE: 200

- Temperature index: 200°C
- Thermal shock: 220°C
- Insulation thermoplasticity: 320°C

### BREAKDOWN VOLTAGE:

Round: minimum 1200 V;  
 Rectangular: minimum 2300 V

### ELECTRICAL RESISTANCE:

Copper: 0,01724 Ohm × mm<sup>2</sup>/m;  
 Aluminium: 0,0277 Ohm × mm<sup>2</sup>/m

### RELATIVE ELONGATION:

Copper: from 30 - 35% and above;  
 Aluminium: from 20 - 26% and above

### CHEMICAL RESISTANCE:

Excellent

### CONDUCTOR MATERIAL:

EN 1977 Cu - ETP CW004A;  
 EN 1977 Cu - ETP1 CW003A;  
 EN 1977 Cu - OF CW008A;  
 EN1715 - (Al ≥ 99.7)

### INSULATION:

- Polyamide-fluoroplastic film
- Aramid paper NOMEX

### PACKAGING:

- Coils
- Drums

### SPECIFICATION:

IEC 60317- (43, 44, 52, 53)

### THE PRODUCTION IS CERTIFIED AND COMPLIES WITH THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015, IDT);  
 EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
 ISO9001:2015

TABLE OF DIMENSIONAL CHARACTERISTICS

TEMPERATURE INDEX 200				
COPPER AND ALUMINIUM ROUND AND RECTANGULAR WINDING WIRE WITH FILM INSULATION				
Wire grade	Temperature index	Type of insulation	Size range	
			Round, mm	Rectangular, mm <sup>2</sup>
PPIOT-200 PPIOT-200A	200°C	Single-layer thinned insulation made of polyimide-fluoroplastic film	1,7-10,0	5,0-80,0
PPIO-200 PPIO-200GA		Single-layer normal insulation made of polyimide-fluoroplastic film		
PPIOU-200 PPIOU-200A		Single-layer reinforced insulation made of polyimide-fluoroplastic film		
PPIDT-200 PPIDT-200A		Double-layer thinned insulation made of polyimide-fluoroplastic film		
PPID-200 PPID-200A		Double-layer normal insulation made of polyimide-fluoroplastic film		
PPIDU-200 PPIDU-200A		Double-layer reinforced insulation made of polyimide-fluoroplastic film		
PPI-200 PPI-200A		Two or more layers of insulation made of polyimide-fluoroplastic film lined with fluoroplastic on both sides		
PPI1-200 PPI1-200A		Two or more layers of polyimide-fluoroplastic film insulation. The lower layers are lined on both sides with fluoroplastic, the upper layer is lined on one side with fluoroplastic and has a polyimide base on the outside to ensure adhesion of the wire insulation surface to the impregnated varnishes.		



# ROUND AND RECTANGULAR COPPER AND ALUMINIUM WIRE

## WITH PAPER INSULATION

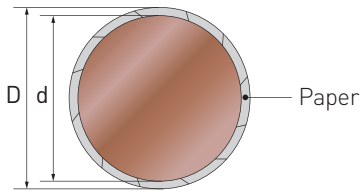


### DESCRIPTION:

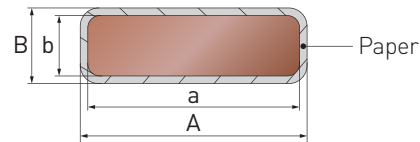
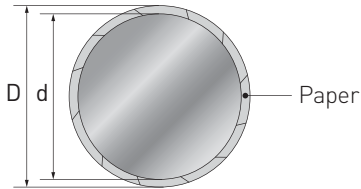
Excellent electrical insulation properties, electrical strength, low insulation thickness and long service life.

It is used in electrical machines, apparatus and transformers, high-voltage oil transformers and reactors.

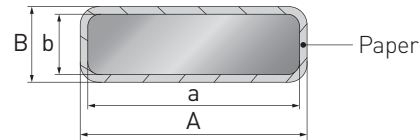




$D-d$  = insulation thickness



$a$  - width       $A-a$  = insulation thickness  
 $b$  - thickness       $B-b$  = insulation thickness



### DESIGNATION OF COPPER WIRES:

- PB
- PBU
- PBU<sub>n</sub>
- PB<sub>n</sub>

### DESIGNATION OF ALUMINIUM WIRES:

- APB
- APBU
- APBU<sub>n</sub>
- APB<sub>n</sub>

### PROPERTIES:

- Excellent electrical insulation properties
- Electrical strength
- Low insulation thickness
- Long service life

### APPLICATION AREA:

- Electrical machines
- Electrical apparatus and transformers
- High voltage oil transformers and reactors

### SIZE RANGE:

Round: 2.8 - 8.0 mm;  
 Rectangular: 5 - 80 mm<sup>2</sup>;  $1,4 \leq (b/a) < 8$

### GRADE: 105, 120

Temperature index: 105°C, 120°C

### BREAKDOWN VOLTAGE:

Not standardised

### ELECTRICAL RESISTANCE:

Copper: 0.01724 Ohm × mm<sup>2</sup>/m;  
 Aluminium: 0.0277 Ohm × mm<sup>2</sup>/m

### RELATIVE ELONGATION:

Copper: from 30 - 35% and above;  
 Aluminium: from 20 - 26% and above

### CONDUCTOR MATERIAL:

EN 1977 Cu - ETP CW004A;  
 EN 1977 Cu - ETP1 CW003A;  
 EN 1977 Cu - OF CW008A;  
 EN1715 - (Al ≥ 99.7)

### INSULATION:

- Cable paper
- High voltage transformer paper
- Electrical insulating paper
- Telephone paper

### PACKAGING:

Coils: 800/36; 500/36

### SPECIFICATION:

IEC 60317-27

### THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015, IDT);  
 EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
 ISO 9001:2015

TABLE OF DIMENSIONAL CHARACTERISTICS

TEMPERATURE INDEX 105, 120				
ROUND AND RECTANGULAR COPPER AND ALUMINIUM WIRE WITH PAPER INSULATION				
Wire marking	Temperature index	Insulation type	Size range	
			Round, mm	Rectangular, mm <sup>2</sup>
PB APB	105°C	Cable and/or telephone paper	2,8–8,0	Up to 80
PBU APBU		High-voltage transformer paper, sealed	–	Up to 80
PBn APBn	120°C	Electrical insulating heat-resistant paper	–	Up to 80
PBU <sub>n</sub> APBU <sub>n</sub>		High-voltage transformer paper, sealed	2,8–8,0	Up to 80



# ROUND COPPER WIRE WITH LIGHT SURFACE

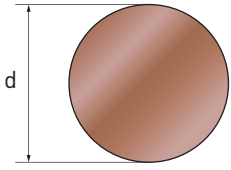


## DESCRIPTION:

High electrical conductivity, mechanical strength, corrosion resistance, bandwidth and long service life.

It is used for the manufacture of electrical conductors used in the production of non-insulated and insulated cables and flexible cords.





d - diameter of the wire

#### PROPERTIES:

- High electrical conductivity
- High mechanical strength
- High corrosion resistance
- High bandwidth capacity
- Long service life
- High surface quality

#### APPLICATION AREA:

Manufacturing of electrical conductors used for the production of uninsulated and insulated cables and flexible cords

#### SIZE RANGE:

Soft: 0.16 – 8.0 mm;  
Solid: 0.16 – 2.5 mm

#### MATERIAL STATE:

- Soft - A021, A021, A022, A024, A026, A028, A033;
- Solid - R460, R440, R430, R420, R400, R390, R380, R370, R360

#### ELECTRICAL RESISTANCE:

Soft: 0.01724 Ohm × mm<sup>2</sup>/m;  
Hard: 0.01776-0.01845 Ohm × mm<sup>2</sup>/m

#### CONDUCTOR MATERIAL:

EN 1977 - Cu - ETP CW004A;  
EN 1977 - Cu - ETP1 CW003A;  
EN 1977 - Cu - OF CW008A

#### INSULATION:

Without insulation

#### PACKAGING:

- Reels
- Drums

#### SPECIFICATION:

EN 13602:2010

#### THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

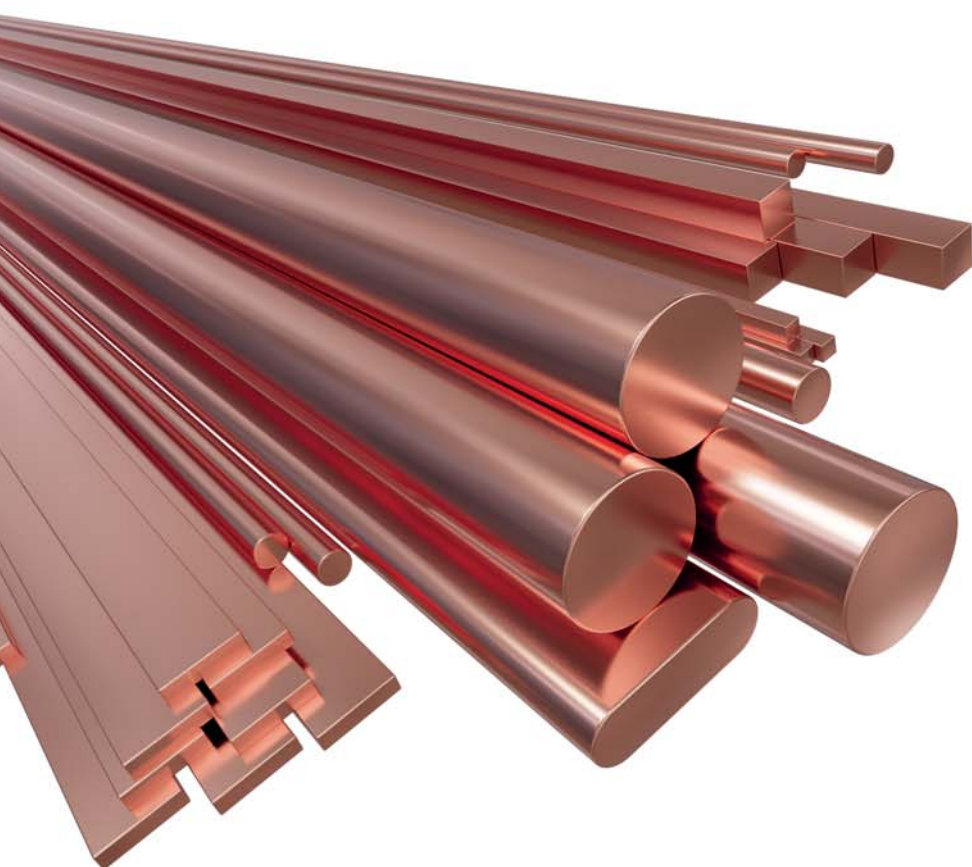
ISO 9001:20015 (ISO 9001:2015, IDT);  
EN ISO 9001:2018 (EN ISO 9001:2015, IDT);  
ISO 9001:2015

## TABLE OF DIMENSIONAL CHARACTERISTICS

ROUND COPPER WIRE WITHOUT INSULATION								
Soft					Solid			
Material state	Ø (mm) from	Ø (mm) up to and including	Temporary tensile strength R <sub>m</sub> , N/mm <sup>2</sup> min.	Relative elongation, % min.	Material state	Ø (mm) from	Ø (mm) up to and including	Temporary tensile strength R <sub>m</sub> , N/mm <sup>2</sup> min.
A015	0,08	0,16		15	R460	0,16	1,12	460
A021	0,16	0,32		21	R440	1,12	1,50	440
A022	0,32	0,50		22	R430	1,50	2,00	430
A024	0,50	1,00	200	24	R420	2,00	2,40	420
A026	1,00	1,50		26				
A028	1,50	3,00		28				
A033	3,00	5,00		33				

# COPPER BUSBAR, WIRE, ROD

## FOR GENERAL ELECTRICAL APPLICATIONS



### DESCRIPTION:

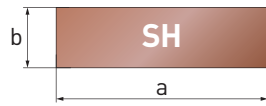
Long service life, high electrical conductivity, mechanical strength, corrosion resistance, and bandwidth.

It is used in traction motors and electric motors. It is used as an electrical conductor for the production of busbars, busbar assemblies and switchgear.



## CONFIGURATION OF BUSBAR, WIRE AND ROD EDGES

a – width  
b – thickness



Sharp edges



Rounded edges



Flat bars with full rounding

### PRODUCT NAME:

Soft annealed busbar

### PROPERTIES:

- High electrical conductivity
- High mechanical strength
- High corrosion resistance
- High bandwidth
- Long service life

### SCOPE OF APPLICATION:

- Electrical conductor for the production of bus wires, bus assemblies, distribution devices
- Electric motors, traction motors

### ELECTRICAL RESISTANCE:

Soft state:  $0.01724 \text{ Ohm} \times \text{mm}^2/\text{m}$

### RELATIVE ELONGATION:

Soft state: from 35% and above

### HARDNESS:

Soft state: HB, HV: 35-65

### EDGE CONFIGURATION:

- SH: sharp
- RD: rounded
- CE: flat bars with full rounding

### INSULATION:

without insulation

### CONDUCTOR MATERIAL:

EN 1977 Cu - ETP CW004A;  
EN 1977 Cu - ETP1 CW003A;  
EN 1977 Cu - OF CW008A

### PACKAGING:

- Soft tire, wire: bays or segments with a length of 1000-6000 mm
- Coils K 500/36; K 800/36

### SPECIFICATION:

EN 13601:2010

### THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015. IDT);  
EN ISO 9001:2018 (EN ISO 9001:2015. IDT);  
ISO 9001:2015

TABLE OF DIMENSIONAL CHARACTERISTICS

SOFT BUSBAR						
Dimensions, mm a × b		Temporary tensile strength Rm, N/mm <sup>2</sup> , min.	Hardness*	Relative elongation A, %, min.	Volumetric electrical resistivity, Ohm × mm <sup>2</sup> /m, max.	Material state
Thickness from:	Width, mm:		HB, HV			
1,0				5,0-9,0		
1,1	4,5-9,0					
1,2	4,0-10,0					
1,4	3,5-11,0					
1,6	3,0-15,0					
1,8	2,8-19,0					
2,0	2,6-21,0					
2,2	2,4-23,0					
2,4	2,4-25,0					
2,6	2,6-27,0					
2,8	2,8-29,0	200	35-65	35	0,01724	H035 R200
3,0	3,0-30,0					
3,2	3,2-30,0					
3,5	3,5-30,0					
4,0	4,0-40,0					
4,5	4,5-40,0					
5,0	5,0-40,0					
5,5	6,0-35,0					
6,0	6,5-30,0					
6,5	7,0-30,0					
7,0	7,0-28,0					

\* Indicators are normalised depending on the state of the material, according to DSTU EN 13601

# PACKAGING



The products can be delivered on coils or drums, which are placed on wooden pallets and tied with packing tape. Each coil or drum is labelled with the product name, net weight, coil or drum weight, coil or drum number, shift number, and production date. Coils and drums are returnable.



Type	Coil/drum flange $\varnothing$ , mm	Material
<b>Round enamelled copper and aluminium wire</b>		
coil	200	plastic
coil	250	plastic
coil	250/400	plastic
coil	315/500	plastic
coil	400/630	plastic
<b>Rectangular wire and copper busbar</b>		
coil	500/36	wooden
coil	800/36	wooden
drum	800	metallic, wooden
<b>Round or rectangular wire in glass fibre and glass polyester insulation</b>		
coil	500/36	wooden
coil	800/36	wooden
drum	800	metallic, wooden

\* Per prior arrangement, the wire can be supplied in the customer's packaging or other packaging not listed in the table.  
 Technical standards of Ukraine: IEC 60264-2-2, IEC 60264-3, DIN 46395, DIN 46397, GOST 5151-79

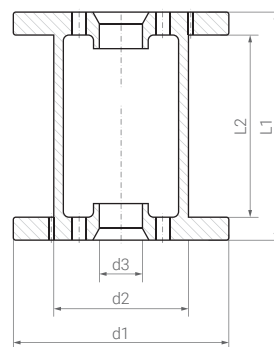
## PLASTIC COIL 200

Winding volume: 3063 cm<sup>3</sup>  
Central opening  $\varnothing$ : 22 mm



## PLASTIC COIL 250

Winding volume: 4637 cm<sup>3</sup>  
Central opening  $\varnothing$ : 22 mm



Coil	d1	d2	d3	L1	L2
200	200	160	22(36)	200	160
250	250	160	22(36)	200	160

## PLASTIC COIL 250/400

Winding volume: 9709 cm<sup>3</sup>  
Central opening  $\varnothing$ : 100 mm



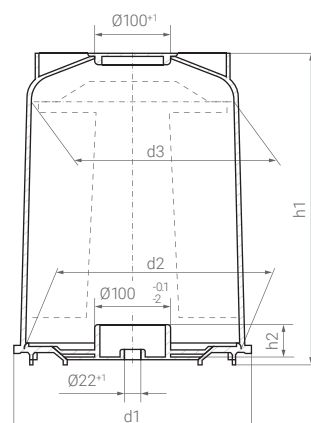
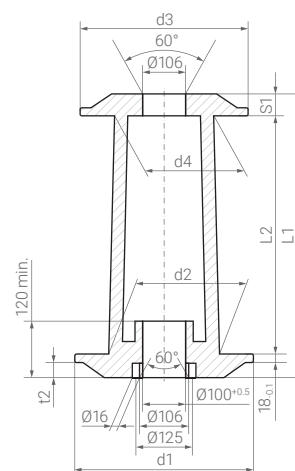
## PLASTIC COIL 315/500

Winding volume: 19768 cm<sup>3</sup>  
Central opening  $\varnothing$ : 100 mm



## PLASTIC COIL 400/630

Winding volume: 40585 cm<sup>3</sup>  
Central opening  $\varnothing$ : 100 mm



Coil	d1	d2	d3	d4	L1 max	L2	t2	S1 max
250/400	250	160	236	140	400	335	15	32,5
315/500	315	200	300	180	500	425	20	37,5
400/630	400	250	375	224	630	530	30	50,5

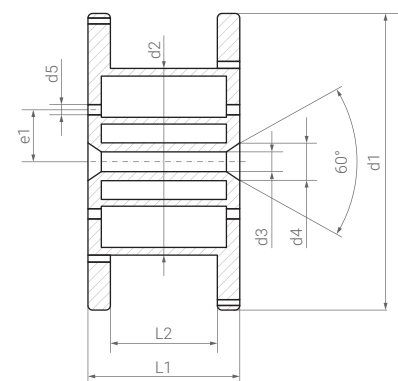
container	d1 max	h1 max	d2	d3	h2 min
250/400	315	500	270	280	50
315/500	400	630	338	355	63
400/630	500	800	428	450	80



**WOODEN  
COIL  
500/36**

Used for soft copper wire  
and soft copper busbar,  
glass fibre or glass polyester  
insulated wires

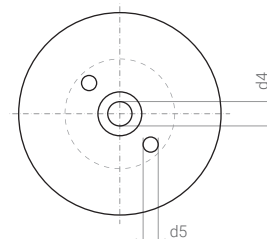
d1	mm	500
d2	mm	315
d3	mm	36
d4	mm	60
L1	mm	250
L2	mm	180
d5	mm	26
e1	mm	80



**WOODEN  
COIL  
800/36**

Used for soft copper wire  
and soft copper busbar,  
glass fibre or glass polyester  
insulated wires

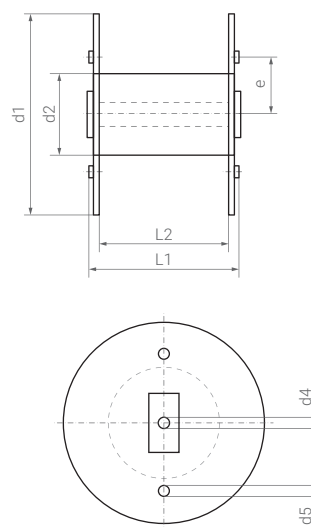
d1	mm	800
d2	mm	400
d3	mm	36
d4	mm	60
L1	mm	280
L2	mm	180
d5	mm	26
e1	mm	80



**WOODEN  
DRUM  
800**

Used for soft copper wire  
and soft copper busbar

d1	mm	800
d2	mm	400
d4	mm	80
L1	mm	600
L2	mm	500
d5	mm	30
e	mm	160



# SUSTAINABILITY



## AKVATON IS AN ENVIRONMENTALLY FRIENDLY COMPANY

We are constantly on the lookout for ways to improve our energy efficiency and minimise our impact on the environment.

When it comes to minimising the environmental impact of our production, we are proud to be an industry leader. Our emissions are well below EU directives, our copper and aluminium waste is 100% recycled, all our packaging is reused and all excess energy from our production is recovered to heat our premises.

Through closed-loop recycling, the use of high-quality raw materials and the implementation of production technologies that eliminate or significantly reduce waste, we also reduce waste in our operations.

Advanced technologies such as energy-efficient equipment and optimised production processes are used to reduce energy consumption. The result is not only a reduction in our carbon footprint, but also long-term cost savings.

Waste recycling is also a key area of our environmental responsibility. We recycle the following materials and substances:

- copper scrap waste;
- cable and wire scrap.

We are also actively working to implement energy efficiency processes. We use solar energy for space heating, water heating and electricity generation.

WE ARE WORKING HARD  
TO MAKE THE FUTURE  
A BETTER PLACE.



## QUALITY IS NOT ONLY ABOUT CONTROL — IT IS ABOUT WHAT WE CREATE AND INTEGRATE INTO OUR DAILY WORK

Product quality is a core value that permeates every aspect of our business. We prioritise stringent quality control measures to deliver products that meet and exceed the highest industry standards.

Our mission is to produce quality wire and provide unsurpassed service through a quality system focused on continuous improvement of our products, processes and customer service.

Our products meet environmental standards that are confirmed by the results of laboratory tests on our products. We are certified to the International Quality Management System ISO 9001.

Since January 2024, Ukraine has adopted international standards (IEC 60317 for technical specifications and IEC 60851 for test methods) from the International Electrotechnical Commission. This organisation sets global standards and verifies that products comply with them. Products of AKVATON Company comply with these standards, helping to harmonise national electrical standards and adopt best practices from around the world.

This ensures high quality and compliance with international standards.

Akvaton has a modern laboratory that carries out all types of necessary research: from the initial stages of material selection to final product testing. We invest in advanced technologies and use the best industry standards to optimise efficiency without compromising the accuracy and consistency of our production.

Much attention is paid to continuous incoming quality control of raw materials and consumables.

Our quality control protocols are comprehensive and cover all aspects of the manufacturing process. This includes thorough inspection of raw materials, rigorous testing at various stages of production and evaluation of finished products.

The ultimate goal of our quality assurance is customer satisfaction. We prioritise open communication with our customers and actively seek feedback to understand their unique requirements and expectations.





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